

Experimental & Solar Physicists

Lockheed Missiles and Space Company's Research Laboratory in Palo Alto, CA, has openings for a SOLAR PHYSICIST and an EXPERIMENTAL OPTICAL AERONOMY PHYSICIST in our Space Sciences Laboratory. These Labs are located on the beautiful San Francisco Peninsula just minutes south of Stanford University.

Solar Physicist

The successful applicant will be expected to conduct and publish original research on solar flares as a member of the Lockheed X-Ray Polychromator (XRP) team. This research WILL make use of existing XRP and related data or new observations to be acquired following the repair of the Solar Maximum Mission (SMM) in 1984. As an active member of the XRP team, this physicist will participate in planning and executing the observing program of the renewed XRP and SMM.

This position requires a PhD degree or its equivalent plus experience in solar research. A background in plasma physics is highly desirable.

Experimental Physicist

A position in experimental optical aeronomy is currently open where the candidate is expected to carry out experimental/observational programs in ground and airglow physics using ground based, airborne and spacecraft based optical instruments. This physicist will participate in existing programs, become involved in the development of data reduction techniques for analyzing photometric spectroscopic and imaging data and eventually be expected to develop one's own interests in research programs. A PhD in physics, space physics or a related discipline, the experience in scientific data analysis, the development of space hardware and the involvement in satellite, rocket or shuttle programs is essential. A willingness to travel to remote sites will be required.

Both of these appointments and salary levels will be commensurate with the credentials of the person selected. Qualified and interested candidates should send their resumes, references and list of publications to: LMSC, Professional Employment, Dept. 600-0215, P.O. Box 504, Sunnyvale, CA 94086. Lockheed is an equal opportunity affirmative action employer. U.S. CITIZENSHIP IS REQUIRED.

Lockheed Missiles & Space Company

Atmospheric Scientist/Programmer/University of Nevada System. The Desert Research Institute is an opening for an Atmospheric Scientist/Programmer within the Atmospheric Sciences Center. The individual will take part in the processing, analysis, and interpretation of aircraft cloud physics data and data collected with radar, radiometer, and lidar remote sensing instruments in cloud physics and analysis will be on developing computer-generated graphics data display capabilities in DRP. Emphasis will then shift to data analysis and interpretation of aircraft cloud physics data. Desirable qualifications include a Ph.D. in atmospheric sciences with 2 to 3 years experience in computer-assisted aircraft and/or remote sensing data display and analysis. Strong candidates with the M.S. degree in atmospheric sciences or related fields of physical science with extensive relevant experience will also be considered and are encouraged to apply. The salary will be attractive and is negotiable, full benefit package is included. Send letter of application, a complete resume stating particulars of education and experience, and names, addresses, and telephone numbers of three individuals who can comment knowledgeably about your capabilities, postmarked by April 1, 1983, to: Mrs. Harrison, Personnel Office, Desert Research Institute, University of Nevada System, P.O. Box 89200, Reno, Nevada 89506. An Affirmative Action/Equal Opportunity Employer.

Isotope Geologist/University of Wyoming. The Department of Geology/Geophysics is seeking applications for a tenure track position at the assistant professor level in isotope geology. The applicant's field of specialty may be in stable or radiogenic isotopes. The successful candidate will be expected to teach undergraduate and graduate courses and conduct his/her own research program. Current research includes: crustal evolution in the Teton and Proterozoic; the systematics of magma contamination; tectonic evolution of compressional and extensional belts. We hope the successful candidate will complement these studies as well as develop a strong, independent program. Applicants should research interests, and names of three references to: Dr. Robert N. Houston, Head, Dept. of Geology/Geophysics, P.O. Box 3000, University Station, University of Wyoming, Laramie, WY 82071. Closing date for applications is February 28, 1983. The University of Wyoming is an equal opportunity affirmative action employer.

Upper Ocean Physical Modeler. A postdoctoral position in upper ocean equatorial modeling supported by NSF is available in the Mesoscale Air-Sea Interaction Group at the Florida State University. Minimum salary is \$21,000/yr. Qualified Ph.D. should send vita and names of 3 references to: Professor James I. Cifuentes, The Florida State University, Tallahassee, FL 32306, or call (904) 644-1581.

Virginia Polytechnic Institute and State University/Structural Geologist. The Department of Geology is seeking applications for a tenure-track position in Structural Geology at the Assistant Professor level. The position involves teaching and supervision of graduate and undergraduate students in the field of structural geology. Candidates should be prepared to teach and supervise research in structural geology. Closing date for applications is April 1, 1983. The position is available from September 1, 1983. To apply send a vita with list of publications, summary of present and proposed research and the names of three references to: Kenneth A. Eriksson, Chairman of Search Committee, Department of Geology, Virginia Polytechnic Institute, Blacksburg, VA 24061. An Affirmative Action/Equal Opportunity Employer.

Assistant Research Geologist. Scripps Institution of Oceanography has a position available for research in various fields of geochemistry including sampling of submarine hydrothermal vent systems in the ocean, field work on the Greenland Ice Cap drilling and sampling ice cores, and laboratory work on isotopic and chemical studies of gases. The starting salary is \$22,900; starting date is April 1, 1983. A two-year appointment is envisaged. Required qualifications include a Ph.D. in atmospheric sciences with 2 to 3 years experience in computer-assisted aircraft and/or remote sensing data display and analysis. Strong candidates with the M.S. degree in atmospheric sciences or related fields of physical science with extensive relevant experience will also be considered and are encouraged to apply. The salary will be attractive and is negotiable, full benefit package is included. Send letter of application, a complete resume stating particulars of education and experience, and names, addresses, and telephone numbers of three individuals who can comment knowledgeably about your capabilities, postmarked by April 1, 1983, to: Mrs. Harrison, Personnel Office, Desert Research Institute, University of Nevada System, P.O. Box 89200, Reno, Nevada 89506. An Affirmative Action/Equal Opportunity Employer.

Faculty Position in Solid Earth Geophysics. The Department of Geological Sciences at the University of Illinois at Urbana-Champaign is seeking a tenure-track or tenured position in Solid Earth Geophysics. Consideration will be given to candidates in earth sciences, geology, marine geology, and other disciplines in Solid Earth Geophysics. The successful candidate will be expected to develop a vigorous research program at Lamont-Doherty Geological Observatory and to contribute to the Department's research in geophysics. Preference will be given to candidates with strong backgrounds in quantitative methods of analyzing geophysical data. Qualified candidates should submit their curriculum vitae and the names of three references to: Prof. A. B. Watts, Chairman of Solid Earth Geophysics Search Committee, Lamont-Doherty Geological Observatory, Palisades, New York, 10964 by April 15, 1983. Columbia University is an equal opportunity/affirmative action employer.

Postdoctoral Position in Dynamic Meteorology. The Department of Atmospheric Sciences at the University of Washington announces a research position for work on problems of large-scale dynamics and transport in the stratosphere and mesosphere. The successful applicant should have demonstrated potential in diagnostic studies of atmospheric circulation and in the development of numerical models. The position is for one year with possibility of extension to three years and begins about July 1, 1983. Candidates should send curriculum vitae and three letters of reference to: Prof. Conway B. Leovy, Department of Atmospheric Sciences AK-40, University of Washington, Seattle, WA 98195. For information phone 206-545-4952. The University of Washington is an affirmative action/equal opportunity employer.

Postdoctoral Fellowship, Igneous Petrology/University of New Mexico. The Institute of Geology, Department of Geology, has an opening for a post-doctoral fellow in igneous petrology, to work on lunar samples. Main thrust of the research will be directed towards petrogenesis of brecciated and with other lunar samples. Close interaction with other Institute staff and students working on lunar samples and meteorites is expected. Experience in electron microprobe analysis or neutron activation analysis desirable but not essential. Position is initially for 1 year, with July 1, 1983. Appointment renewable for a second year. Send resume, list of publications and 3 letters of reference to: Dr. R. K. Kell, Director, Institute of Geology, Department of Geology, University of New Mexico, Albuquerque, N.M. 87131. The University of New Mexico is an equal opportunity affirmative action employer.

Faculty Positions/Drexel University. The Department of Physics and Atmospheric Science has several openings for both visiting and tenure track faculty at all levels starting in the fall of 1983. Applicants must have strong teaching and research interests in one or more of the areas in the Department: Atmospheric Science—mesometeorology, satellite meteorology, and remote sensing of the atmosphere; EXPERIMENTAL PHYSICS—biophysics, quantum optics, nuclear and particle physics; THEORETICAL PHYSICS—solid state physics, nuclear physics, quantum optics and non-linear dynamics. Interested persons should send resumes and the names, addresses, and telephone numbers of three references to: Dr. Herman Newstein, Acting Head, Department of Physics and Atmospheric Science, Drexel University, Philadelphia, PA 19104 (215) 895-2707. Drexel University is an equal opportunity and affirmative action employer.

Faculty Position/Department of Geology, University of Illinois at Urbana-Champaign. Applications are invited for a tenure-track or tenured position in experimental rock physics. The position is expected to be filled by August 1, 1983. The successful candidate will be given an open position depending upon experience. We are seeking an individual who is interested in either brittle or ductile behavior of rocks and their geophysical applications. An earned Ph.D. is required. The Department of Geology, the Materials Research Laboratory and the Engineering College of the University offer excellent research facilities for rock physics studies. For equal consideration, interested individuals should send curriculum vitae, and the names of three or more references by March 5, 1983 to: Albert T. Hsu, Department of Geology, University of Illinois at Urbana-Champaign, 1801 West Green Street, Urbana, Illinois 61801 (312) 555-7732. The University of Illinois is an equal opportunity/affirmative action employer.

Faculty Positions/The University of Iowa. The Department of Physics and Astronomy anticipates one or two openings for tenure-track assistant professors or visiting professors of any rank in August 1983. Preference will be given to experimentalists in any area for the tenure-track position. Current research interests include astronomy, atomic, molecular, and solid state physics. The positions involve undergraduate and graduate teaching, guidance of research students, and personal research. Research interests should be stated in a letter of recommendation sent to Search Committee, Department of Physics and Astronomy, The University of Iowa, Iowa City, IA 52242. The University of Iowa is an equal opportunity/affirmative action employer.

Geophysical Sciences. Applications invited for a possible tenure-track position at the Assistant Professor level beginning August 1, 1983. Doctoral degree (or near completion) is required. Doctoral degree expected to teach undergraduate and graduate courses in structural geology/geomorphology and to develop a research program in any of these areas. The department has a well-equipped remote sensing laboratory, 11 faculty, 150 undergraduate majors, and 50 graduate students. Salary open. Send vita, a brief description of research interests, and arrange to have three letters of reference by June 30, 1983 to Dr. Randall S. Spencer, Chairman, Department of Geophysical Sciences, Old Dominion University, Norfolk, Virginia 23506-0112. An Affirmative Action/Equal Opportunity Employer.

Physical Oceanographer/Computer Programmer. The Florida State University is seeking applicants to help carry out advanced research that involves numerical modeling and time series analysis. Candidates should have an M.S. in physical oceanography or computer science and experience with principles of ocean circulation modeling and oceanographic data processing. Experience on CDC mainframes plus Fortran IV is particularly desirable. Position available to start immediately. Rank is Research Assistant. Salary will be competitive according to training and experience. Send resume and professional references by March 28, 1983 to Y. Hsu, Department of Oceanography, Florida State University. An affirmative action/equal opportunity employer.

STUDENT OPPORTUNITIES

Congressional Science Fellowship/AGU. Opportunity for a one-year assignment on the staff of a congressional committee or a House or Senate member as an advisor on a wide range of scientific issues affecting public policy questions. Individuals who are AGU members and U.S. residents are invited to apply. A broad background in science is expected, as the various duties entail research and analysis of scientific data, and the ability to work well with people from diverse professional backgrounds.

Public policy background is not required although such experience and/or demonstrable interest in applying science to the solution of public problems is desirable. The fellowship carries with it a stipend of up to \$27,000 plus travel allowances.

How to apply: Candidates should submit a letter of intent, a curriculum vitae, and three letters of recommendation. The letter of intent should include a statement of why the fellowship is desired, how you qualify for it, what role you envision as a congressional science fellow, and what outcome you hope for in relation to career goals. The individuals from whom you require letters of recommendation should discuss not only your professional qualifications but also other aspects of your background that make you particularly qualified to serve as a Congressional Science Fellow. Send the above to: Department MP, Congressional Science Fellowship Program, American Geophysical Union, 2000 Florida Avenue, N.W., Washington, D.C. 20009. Application Deadline: March 31, 1983.

Graduate Scholarships in Geophysics/University of Wyoming. Amoco and Chevron Fellowships M.S. and Ph.D. levels Up to \$10,500/year plus tuition Research support Research and Teaching Assistantships \$3,500-7,000/academic year \$2,500 summer stipend Tuition Hill Fellowships Variable stipends Areas of geophysical research at Wyoming: Reflection seismology Gravity and magnetic potential field studies

Physical properties Paleomagnetism and rock magnetism Thermal processes Crustal structures and magnetism Tectonic modeling Seismic data processing Contact: Dr. Kevin P. Furlong Dept. of Geology/Geophysics University of Wyoming P.O. Box 3000, University Station Laramie, WY 82071 307/766-1979.

Graduate Fellowships in Coastal and Continental Shelf Sedimentation. The Geology Department of Dalhousie University invites applications for graduate fellowships leading to M.Sc. and Ph.D. degrees with specialization in the field of coastal and continental shelf sedimentation. Potential research areas include shoreline and sediment processes, instrumentation for sediment transport studies and construction of coastal facies models. Opportunities exist to take part in the upcoming Canadian Coastal Sediment Study and to gain scientific cruise experience on research vessels from Bedford Institute of Oceanography. Awards cover a calendar year stipend and are valued, after fees are deducted, between \$6500-\$8000. For further information or application please write:

Dr. R. Boyd
Geology Department
Dalhousie University
Halifax, Nova Scotia
CANADA B3H 3J5.

SERVICES, SUPPLIES, COURSES, AND ANNOUNCEMENTS

FIFTH CONFERENCE ON THE PHYSICS OF THE JOVIAN AND SATURNIAN MAGNETOSPHERES

Cambridge, Massachusetts
June 21-24, 1983

Sessions on satellite effects on the magnetosphere, interaction of the magnetosphere with rings, dust, and satellite surfaces, radio and plasma wave emission in relation to particle and field structure, energetic particles, magnetospheric configuration, dynamics, and energy budget.

Invited and Contributed Papers Abstracts deadline: March 15, 1983 Further information: Jupiter/Saturn Conference c/o Prof. H. S. Bridge, 37-24 Laramie, WY 82071. Massachusetts Institute of Technology, Cambridge, MA, 02139, (617) 253-7501.

AGU

Council Sets Pace For '82-'84 Action

The December 1982 meeting of the AGU Council, the first in the 1982-1984 biennium, has set a new pace. It is the first Council Meeting in the memory of any of those participating at which every Council member was present in person. This record attests to the importance Section presidents and president-elect place on their responsibilities as representatives of their sections and as members of what in effect is AGU's Board of Directors; and it is a further tribute to the value they place on AGU.

Both the Council and the AGU Executive Committee held their meetings on December 9, 1982, during the Fall Meeting in San Francisco. President Van Allen, President-elect Drake, General Secretary Meredith, Foreign Secretary Kisslinger, and Executive Director Spilhaus constituted the Executive Committee. The full Council includes the Executive Committee and the President and President-elect of each Section. At its meetings the Council usually addresses administrative matters such as budgeting, examines existing operations, and considers proposed new programs. The Executive Committee acts on behalf of the Council between Council meetings; it is specifically charged with approving Chapman conferences, the cosponsorship of other

meetings, and several other largely administrative actions.

At its December meeting the Council reluctantly accepted the proposal of the Meetings Committee that the 1983 Spring Meeting be held in Baltimore during the week beginning with Memorial Day. At its meeting last May the Council directed the Meetings Committee to try to avoid the Memorial Day holiday. However, Baltimore in 1983 was available only over Memorial Day, and any other week in one of the six or seven other cities considered would be costlier and less convenient. Drawbacks of other sites included higher rates for hotel rooms, smaller meeting room facilities, and more difficult access by air. Because of the Council's concern about using the Memorial Day week, the Executive Committee subsequently asked the Meetings Committee to develop a plan for AGU's annual meetings through 1990. The Committee is now gathering data on member preferences with respect to all the factors that must be taken into account when assessing a potential meeting site.

Also under consideration is whether AGU should have one or two annual meetings. The case was forcefully made by one Council member that AGU currently does not have two national meetings but rather two regional meetings. He went on to say that this regionalization has diluted the value of each Annual Meeting.

The Public Affairs Committee presented

two proposals that the Council approved.

The first was for a Science Policy Seminar series to be operated on a 2-year trial basis. Former AGU Congressional science fellows will be asked to participate as seminar leaders and will be available to visit colleges and universities that would like to put on such seminars. The second proposal was to increase the *Eos* news writing staff with a half-time person to permit greater coverage of Congressional and other governmental affairs. Initially the coverage will focus on key legislation. The intent is to inform AGU members of the issues when pertinent legislation is introduced and to provide updates on the progress of these bills, including the votes of each Congressman and Senator. Probably a dozen or so pieces of legislation will be followed this way during the course of a year.

In other action the Council granted the Hydrology Section an opportunity to attempt to work out details for AGU's continued publication of translations from the Soviet hydrology literature.

The Council approved bylaws for both the Geodesy and Oceanography sections. These bylaws will be published together with other Section news in the near future.

The Council also approved an amendment to the Union bylaws that changes the name of the Oceanography Section to the Ocean Sciences Section. This is merely a substitution of the words Ocean Sciences for the word Oceanography in Article 1 of the bylaws.

This report of Council action serves as the official notice to the Union membership of the intent to change the bylaws. The amendment must be ratified at the next Council Meeting in order to become final.

The 1983 budget was approved by the Council (see table). The proposed surplus for 1983 meets the annual target set by the Council several years ago; the target is part of the Union's goal of increasing its reserves through contributions from the membership and through surpluses from Union operations. The 1983 projected surplus of

AGU (cont. on p. 78)

The Climatic Effects of Volcanic Dust and Aerosols in the Upper Atmosphere

Friday, March 18, 1983

8:30 a.m.-5:00 p.m.

National Bureau of Standards Auditorium

325 Broadway, Boulder, Colorado

Sponsored by the AGU

Front Range Branch

Cosponsored by the

Denver/Boulder Chapter,

American Meteorological Society

This symposium will bring together prominent researchers in the fields of climatology, meteorology, glaciology and volcanology to summarize the state of knowledge on this subject in an interdisciplinary forum at a level appropriate for a non-specialized, but scientifically literate audience. The meeting is open to the public.

Topics will include:
• The history and causes of climatic variations
• Explosive volcanism
• Atmospheric effects and observations
• Climatic and cultural consequences.

Contact: Jules Friedman and Raymond Watts, U.S. Geological Survey, P.O. Box 25025, Mail Stop 964, Denver, CO 80225 (303) 234-3676 (Friedman) or 234-3493 (Watts).

For further information, see *Eos* Meetings Section, February 15, 1983.

The June Bacon-Bercey Scholarship In Atmospheric Sciences for Women 1983-1984

Expressly for women intending to make a career in the atmospheric sciences. This monetary assistance, provided through a gift from June Bacon-Bercey, a noted meteorologist, will be given to a woman who shows academic achievement and promise. To qualify, candidates must be one of the following:

- a first-year graduate student in an advanced degree program in atmospheric sciences;
- an undergraduate in a bachelor's degree program in atmospheric sciences who has been accepted for graduate study;
- a student at a 2-year institution offering at least six semester hours of atmospheric sciences, who has been accepted for a bachelor's degree program, and who has completed all of the courses in atmospheric science offered at the 2-year institution.

Awardee selection will be made by the AGU Subcommittee on Women in Geophysics in consultation with the AGU Atmospheric Sciences Section.

For application forms contact: American Geophysical Union Member Programs Division, 2000 Florida Avenue, N.W., Washington, D.C. 20009.

462-6903
800-424-2488 outside the Washington, D.C. area

Application Deadline
May 1, 1983

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Reach the decision makers in the earth, ocean, atmospheric and space sciences.

This special issue, in journal format, will feature the abstracts of papers presented at the meeting plus new articles, and editorials!

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For rates and additional information, call: Toll Free: 800-424-2488 (in the Washington area 462-6903).

